



STANLEY IERWANTO

BACHELOR OF ENGINEERING GRADUATE

CONTACT

- +81 8060014130
- stanley.ierwanto@gmail.com
- <https://jp.linkedin.com/in/stanley-ierwanto-sg/>

SKILLS

- Power Electronics Engineering
- PCB Design (Altium, KiCAD)
- 3D CAD (Creo, Fusion)
- Robotics design and development
- Embedded Systems
- Programming (Python, C++, ...)
- Electric Circuit Design
- PLC Programming
- MATLAB/Simulink
- AI Avatar
- Game Development
- Web Design (JavaScript, HTML, CSS)
- UI/UX Design (Figma)
- Video Editing
- Project Management
- Technical Writing

LANGUAGES

- Indonesian (Native)
- English (Bilingual)
- Japanese (Intermediate)
- Chinese (Basic)



PROFILE

Engineering graduate from Kyoto University of Advanced Science with a strong foundation in power electronics, robotics, and software development. Gained practical experience through peer-reviewed research publications, industry capstone projects with SCREEN Holdings and Techfirm Inc, and internships at Nidec Corporation. Eager to apply my skills, learn from experienced engineers, and contribute to impactful engineering projects in a collaborative environment.



WORK EXPERIENCE

KUAS SP2Lab (Solid-State Power Processing Laboratory)

LABORATORY RESEARCH ASSISTANT

JUL 2025 - AUG 2026

— lead by Prof. Alberto Castellazzi

[Lab Member](#) [Lab Website](#)

- EMI Shielding: Designed a custom enclosure for the Imperix B-Board controller using 3D CAD, PCB integration, circuit design, and laser cutting to reduce interference.
- Lab Automation: Built software using python with SCPI communications for remote control and data acquisition of power supplies, analyzers, data loggers, and temperature instruments.
- DAB Converter Research: Compared conventional vs. center-tapped DAB topologies and automated test procedures using the Python/SCPI software.
- Publications & Awards: Submitted results to IEEE IPEC 2026 and won Best Paper at ICPET 2026 (Chengdu, China).

Nidec Corporation - Electric Motor Division

Summer Internship

Aug 2024 - Sept 2024

- Motor Technology: Studied the assembly and operating principles of IC fan, axial fan, centrifugal fan, and e-bike motors.
- Automation: Gained hands-on experience with PLC programming for industrial automation applications.
- Manufacturing & QC: Observed manufacturing, quality control, and testing procedures in motor production.
- Engineering Workflow: Collaborated with engineers to understand product development workflows and industrial engineering practices in a global environment.



EDUCATION

Bachelor's of Engineering

Sept, 2022 - Sept, 2026

Mechanical and Electrical System Engineering | (京都先端科学大学)

Kyoto University of Advanced Science (KUAS)

GPA: 3.48

KUAS E-SCHOLARSHIP AWARDEE 2022



PROJECTS

- Cornerstone Project - Benchmark of Conventional and Center-Tapped Dual Active Bridge Converter: Compared DAB converter topologies and automated testing with Python/SCPI software for a paper submitted to IEEE IPEC 2026.
- Capstone Project - Bubble-Free Dispensing of High Viscosity Cell Culture Gel with SCREEN Holdings: Designed an automated gel dispensing system using 3D-printer motion principles to improve accuracy and eliminate air bubbles.
- Pre-Capstone Project - AI and Digital Humans for Recruitment with Techfirm Inc.: Developed the front-end interface and integrated AI avatar technologies for an interactive digital human recruitment assistant.
- EMI Shielding for Imperix B-Board Controller: Designed and fabricated a custom EMI shielding enclosure using 3D CAD, PCB design, and laser cutting.
- KUAS Mechatronic Laboratory Project - Rocker-Bogie Transformable Wheel Rover : Built a transformable-wheel robot with Rocker-ogic suspension system using ROS/Raspberry Pi teleoperation and a servo-driven manipulator for stair climbing.